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Dalisa et al.

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[54] ELECTROPHORETIC DISPLAY DEVICES

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G05D 25/00[52] U.S. Cl. 204/299 R; 204/180 R;
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[57] ABSTRACT

An electrophoretic display device comprises a cell in which a colloidal suspension of pigment particles is contained between associated electrodes and means are provided for the establishment of a potential between the electrodes for the selective transport of pigment particles. This potential permits changing the spatial distribution of pigment particles in specifically defined regions of the display cell. The device also comprises a light transmissive plate associated with the cell, whereby illumination received in the plate is internally reflected, with light coupling between the illumination and selected regions of the cell at which such particles are suitably disposed. The coupled illumination is transmitted by the cell to the observer. The cell regions at which the particles are disposed are switchably selectable.

15 Claims, 5 Drawing Figures

